

Report by Pbar

- Power Estimates
 - Present Planar loop design
 - @120 mA - 5.3 W
 - @200 mA - 2.7 W
 - 3 Band Design
 - @120 mA – 0.17 W / band
 - @ 200 mA – 0.1 W / band
 - 50% goes in downstream beampipe absorber
 - 50% goes in downstream input waveguide terminations
 - Spec. is 2 Watts / band

Report by RFI

- Ding Sun
 - Absorber Design
 - Get 10 dB loss over 4” with 0.125” thick absorber
 - Quarter wave chimney design looks okay
 - Will look into “screen” design
 - Power tested Cullerton’s latest version of the Petter hybrid to 13 Watts with no water cooling
- Cullerton
 - Has located a vendors that can supply 4-8 GHz circulators that:
 - can handle > 50W of CW power
 - VSWR 1.25
 - 5 GHz of bandwidth
 - 0.7 dB of insertion loss

Report by Mechanical Support

- Techs to start absorber outgassing test next week. Should be ½ way done by Nov. 30
- Have identified 2/3 of type N vacuum feedthrus needed.
- Dave Tinsley assigned full time to project
- Drafter Kevin O'Brien might start part time on project next week and maybe full time after Thanksgiving

Discussions

- Launchers into waveguide
 - No waveguide bend. Use commercial “knobs”
- Size of absorber pump output port
 - $\frac{1}{4}$ wave chimney
 - Holes
 - Slots
 - Screens
- Locate side absorber inside waveguide wall.
 - Can band 3 beampipe width be 1.47”?
- Taper between bands to be done through 5” section
- Absorber tile to extend past 5” section by 1” on either side
- Absorber thickness 0.125”

Assignments

- McGinnis – Model Band 3 with beampipe width 1.47” (instead of 1.372”)
- Sun
 - Continue on absorber design
 - Interface with Mech Support
 - Determine max. size of pump out port given 15 db of absorbing
 - Order Magic T’s - 2 for each band
 - Order Absorber before Xmas 2001
 - Order commercial Launchers
- Seifrid
 - Start Design of Petter hybrid mounting
- Cullerton –
 - Order Circulators
 - Begin design of filters
 - Order Type N power terminations
- Mechanical Support
 - Find out about supply of type N vacuum feedthroughs
 - Start bake-out test
 - Rough design of Absorber assemblies

- Next Meeting will be on Fri. Nov. 30 at 10 am in the Penthouse